

# Waste Sort and Compaction Facility Savannah River Site, South Carolina

#### **Original Problem**

SRS generates large quantity of low level waste from its routine and cleanup activities. Waste packaging often contains voids due to generator in-field waste packaging capabilities. Capacity of waste disposal cells/vaults is limted.



The Waste Sort Facility (WSF) was constructed to reduce the volume of low level waste requiring disposal. The WSF is designed to receive, unload, sort, and repackage Low Level Waste from B-25 boxes. The WSF will separate legacy and newly generated Low Level Waste for incineration, compaction or direct burial. The WSF includes a sort table and glove box to segregate waste and a shredder for ability to size reduce waste.



DOE Monetary Benefits	
Cost	\$2.8Million
Lifecycle Savings	\$50 Million
Return on Investment	330 %

#### **Value Of Improvement**

The WSF significantly reduced the volume of low level waste to the Low Activity Waste Vault (LAWV). Segregation of waste into treatability groups allows more cost effective treatment and disposition, and will reduce LAWV space use in the future.

Lifecycle Waste Reduction	
Life Cycle Waste Reduction	None (cost-effective segregation)
Operation Commencement Date	1998
Project Useful Life (Years)	5

### Benefits At-A-Glance

- 1435 B-25 Boxes sorted since operation began
- 14,527 drums compacted since operation began
- Estimated cost savings of \$50M over project life

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**Summary Data** 

ROI Priority Area: Waste Management

ROI Project Type: Other (Waste Treatment)

Project Cost: \$2.8M

Lifecycle Savings: \$50,000,000

Implementing Group: EM, SRS Solid Waste Division

Benefiting Group: EM, SRS Solid Waste Division

Useful Life Years: 5 Years

Return On Investment: 330 %

Lifecycle Waste Reduction: None

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